



# JOINT HIGHWAY RESEARCH PROJECT

FHWA/ISHC/JHRP-80/8

TRAFFIC SPEED REPORT NO. 112

R. P. Guenther

G. K. Stafford







TRAFFIC SPEED REPORT NO. 112

TO: H.L. Michael, Director  
Joint Highway Research Project

July 2, 1980

File: 8-3-3

FROM: R. P. Guenther  
Graduate Research Assistant  
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 112 on Traffic Speeds is the report of the January-March, 1980 quarterly study of automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. R. P. Guenther, a Graduate Instructor in Research on our staff, with assistance from Ms. P. J. Tirshman, a drafting assistant on our staff. The data collection was performed under the supervision of Mr. G. K. Stafford. Professor H. L. Michael directed all phases of the study.

Results of this study show an overall average speed of 57.1 mph. This value is only 0.1 mph lower than the value recorded during the previous quarter. Likewise the average speed for each vehicle type and highway classification have changed only slightly or not at all since the previous quarter.

The statewide average of vehicles traveling above the 55 mph speed limit for this quarter was 61.0 percent. This is slightly higher than the value of 59.0 percent recorded during the previous quarter. Less than 60 percent of the vehicles can be exceeding the 55 mph speed limit during this year ending September 30, 1980, according to current Federal directives without a penalty possibility existing.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,



Richard P. Guenther  
Graduate Research Assistant

RPG/mag

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Interim Report

TRAFFIC SPEED REPORT NO. 112

by

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Project No.: C-36-10C

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in Cooperation with the

Indiana State Highway Commission

and the

U. S. Department of Transportation  
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration

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		14. Sponsoring Agency Code	
15. Supplementary Notes Conducted in cooperation with the U. S. Department of Transportation, Federal Highway Administration under a planning study titled "Speed Trends for Indiana Highways".			
16. Abstract  This report is another in the continuing study of speeds of vehicles on Indiana highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the January-March 1980 quarter.  This report utilizes the analysis provided by the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978. Results indicate a statewide average of 61.0 percent of the vehicles traveling above the 55 mph speed limit. This represents a slight increase over the 59.0 percent recorded during the last quarter.  The overall free flow average speed of 57.1 mph represents very little change in speeds from the previous 1979 quarter (Speed Report No. 111). In addition, the average free flow speeds for each vehicle type and highway classification have changed only slightly or not at all from those values recorded during the previous quarter.			
17. Key Words Speeds, Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect		18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161	
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## TRAFFIC SPEED REPORT NO. 112

Included here is an analysis of spot speed observations made during January-March 1980. All observations were made of vehicles on level, tangent sections of rural and urban highways under favorable conditions. All observations were made during daylight. Observations of free flowing vehicles were made at all speed monitoring locations as has been done in the past. Additional data based on every nth vehicle were collected at specified locations to enable computation of those factors required by the interim speed monitoring procedures. This data collection procedure will be referred to as the "all vehicles" technique.

The speed monitoring stations for each highway classification are divided into two groups. The first group of seven (7) is identified as "primary control stations" and includes the same locations on selected Federal and State highways as used in each quarterly study. These stations are divided into four categories, including two rural interstate locations, two rural four-lane locations, two rural two-lane locations, and one urban interstate location.

The other group of seven stations were selected at random for this quarterly study. Two rural interstate sections were randomly selected from the 37 sections across the state. Likewise two rural four-lane sections and one urban interstate section were randomly selected from 33 and 8 sections respectively across the state. Two rural two-lane locations were selected from two randomly selected counties across the state. The exact location of each speed station was selected at a location which was level, tangent, away from any construction, and free from intersections or interchanges. No random station is repeated during the year ending September 30, 1980.

A total of fourteen (14) speed monitoring stations were used for the study reported herein. The site locations follow and are shown in Figure 1.

FIGURE 1 LOCATIONS OF SPEED-STUDY STATIONS





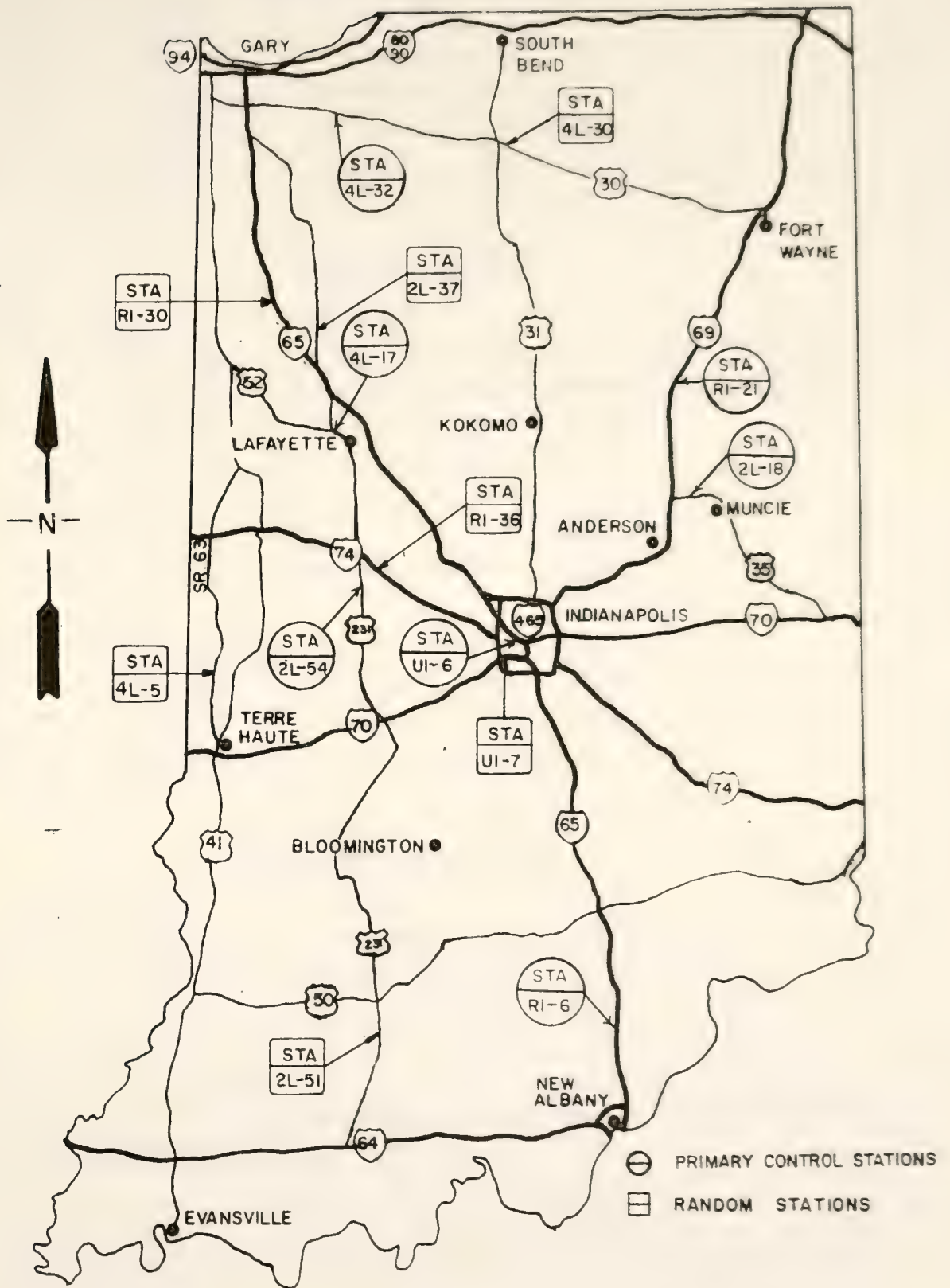


FIGURE 1. LOCATIONS OF SPEED-STUDY STATIONS





## RURAL INTERSTATE HIGHWAYS

* RI - 6	(I-65)	7.5 miles north of SR 160
+ * RI - 21	(I-69)	1.6 miles south of SR 18
RI - 30	(I-65)	2.15 miles north of SR 14
+ RI - 36	(I-74)	3.01 miles east of U.S. 231 1/2 hr. intervals

## FOUR-LANE HIGHWAY

+ * 4L - 17	(US 52)	Just east of Co. RD 475 W. near Klondike
* 4L - 32	(US 30)	2.9 miles west of Wanatah city limit sign
+ 4L - 5	(SR 63)	0.6 miles south of SR 163
4L - 30	(US 30)	2.1 miles east of US 31

## TWO-LANE HIGHWAY

* 2L - 18	(US 35)	2.5 miles east of I-69
+ * 2L - 54	(US 231)	1.1 miles south of SR 234
+ 2L - 37	(US 231)	0.6 miles north of SR 16
2L - 51	(US 231)	5.55 miles north of SR 56

## URBAN INTERSTATE HIGHWAY

+ * UI - 6	(I-65)	Just east of White River Bridge
+ UI - 7	(I-70)	0.7 miles east of west leg of I-465

\* PRIMARY CONTROL STATIONS.

+ STATIONS AT WHICH DATA WAS COLLECTED FOR "ALL VEHICLE" TECHNIQUE AS WELL AS USING THE FREE FLOW METHOD.





The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or Heavy (equal to or more than 5000 lbs. gross weight) trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The speed limit at all stations is 55 miles per hour.

#### Sample Size

A minimum of 200 vehicles in each direction were recorded using the free flow technique at each station. At least 25 of these vehicles were required to be heavy trucks.

At the selected stations, an additional 200 vehicles in each direction were sampled using the "all vehicles" technique. These stations included one randomly selected control station and one randomly selected random station in each of the four highway categories. For this technique, only speed data was recorded of each nth vehicle in the traffic stream. The traffic stream is all vehicles in one direction of movement if volume permits or by lane if high volumes require. If by lane, each lane was sampled for 15 minute periods and repeated until the sample required was obtained.

The value of n was 2 in all cases. If the nth vehicle speed could not be obtained, it was not recorded and the next nth vehicle was taken.

At stations where both sampling techniques were used, the two techniques were used interchangeably in 30 minute intervals until complete.

#### Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder or as a normally parked vehicle in an access driveway to the road. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least 15 minutes. This problem is only important on interstate roads.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than  $10^{\circ}$ . No corrections of speed were necessary at these small angles. The accuracy of the meter was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.





### Results of Analysis

The data collected were analyzed and are summarized in the Appendix. Tables A1 through A14 include the data for the free flow data on each individual station. Tables A15 through A18 summarize the free flow data by highway classification. Table A19 is the summary for all highways. Tables A20 through A32 summarize the data taken using the "all vehicles" technique. Tables A33 through A54 present the same information in the FHWA format.

The results of the free flow data expressed by highway classification and vehicle type are as follows:

Table 1: Average Speeds (mph)

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	<u>All</u>
<u>Passenger Cars:</u>					
Indiana	58.3	58.6	56.3	55.8	56.9
Non-Indiana	58.5	59.0	57.2	57.7	58.5
All Passenger Cars	58.4	58.8	56.5	55.9	57.3
85 Percentile (all)	62.0	62.6	60.3	60.6	61.5
<u>Trucks:</u>					
Less than 5000 lbs.	57.6	57.6	55.1	54.8	56.0
5000 lbs. or more	57.2	59.2	56.5	55.6	57.1
<u>All Vehicles:</u>					
Average	58.0	58.8	56.3	55.7	57.1
85 Percentile	61.7	62.6	60.3	60.4	61.4

Table 2: Percent of Vehicles Exceeding 55 mph.

	<u>Interstate</u>				
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
<u>Passenger Cars:</u>					
Indiana	74.8	77.5	58.4	52.6	62.4
Non-Indiana	80.2	82.7	69.0	66.1	78.3
All Passenger Cars	75.8	80.4	60.7	53.5	66.7
<u>Trucks:</u>					
Less than 5000 lbs.	70.1	70.9	49.0	45.8	56.2
5000 lbs. or more	66.7	81.9	61.1	54.6	66.1
All Vehicles:	72.8	79.7	59.4	52.4	65.0



Table 3: Percent of Vehicles Exceeding 60 mph.

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	
<u>Passenger Cars:</u>					
Indiana	29.7	30.7	16.5	17.1	21.4
Non-Indiana	31.2	32.2	16.7	29.0	28.4
All Passenger Cars	30.0	31.6	16.6	17.9	23.3
<u>Trucks:</u>					
Less than 5000 lbs.	25.2	24.6	11.0	11.1	16.4
5000 lbs. or more	21.9	37.5	19.2	18.9	24.7
All Vehicles:	27.3	32.3	16.6	16.9	22.7

Table 4: Percent of Vehicles Exceeding 65 mph.

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	
<u>Passenger Cars:</u>					
Indiana	6.5	6.2	2.8	3.8	4.4
Non-Indiana	4.2	5.8	1.9	4.8	4.7
All Passenger Cars	6.1	6.0	2.6	3.9	4.5
<u>Trucks:</u>					
Less than 5000 lbs.	2.4	3.5	2.9	2.3	2.7
5000 lbs. or more	3.5	6.3	1.6	2.5	3.5
All Vehicles:	4.9	5.8	2.3	3.3	4.0

The following shows a comparrison of the average free flow speed results with those of the previous three quarters:

Table 5: Comparison of the Overall Speed Results

	<u>Jan-March</u>	<u>Oct-Dec</u>	<u>July-Sept</u>	<u>April-June</u>
	1980	1979	1979	1979
<u>Average</u>				
All Passenger Cars	57.3	57.5	56.9	57.4
Heavy Trucks	57.1	56.8	56.9	57.1
All Trucks	56.7	56.7	56.4	56.9
<u>85 Percnetile</u>				
All Passenger Cars	61.5	62.0	61.3	61.6
Heavy Trucks	61.5	61.5	61.7	62.2
All Trucks	61.2	61.5	61.2	61.9
<u>15 Percentile</u>				
Heavy Trucks	51.8	51.0	51.2	51.4





Table 6: Average Speeds on Interstate Highways (URBAN)

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	58.3	58.2	56.7	57.2
Non-Indiana	58.5	59.0	56.9	59.0
All Passenger Cars	58.4	58.3	56.8	57.5
85 Percentile (all)	62.0	61.9	60.5	61.5
<u>Trucks:</u>				
Less than 5000 lbs.	57.6	57.4	56.5	57.5
5000 lbs. or more	57.2	56.1	56.4	57.0

Table 7: Average Speeds On Interstate Highways (RURAL)

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	58.6	59.1	58.5	59.6
Non-Indiana	59.0	59.4	59.0	59.2
All Passenger Cars	58.8	59.2	58.8	59.4
85 Percentile (all)	62.6	63.5	62.7	63.3
<u>Trucks:</u>				
Less than 5000 lbs.	57.6	57.8	58.0	58.1
5000 lbs. or more	59.2	58.7	59.1	59.5

Table 8: Average Speed on Other Four-Lane Highways

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	56.3	56.7	56.1	56.3
Non-Indiana	57.2	57.6	55.9	56.7
All Passenger Cars	56.5	56.8	56.1	56.3
85 Percentile (all)	60.3	61.2	60.7	60.4
<u>Trucks:</u>				
Less than 5000 lbs.	55.1	55.8	55.2	55.6
5000 lbs. or more	56.5	56.1	56.3	56.1





Table 9: Average Speeds on Two-Lane Highways

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	55.8	56.4	55.8	56.4
Non-Indiana	57.7	56.9	56.0	56.4
All Passenger Cars	55.9	56.5	55.8	56.4
85 Percentile (all)	60.6	61.0	60.2	61.0
<u>Trucks:</u>				
Less than 5000 lbs.	54.8	56.2	54.4	55.7
5000 lbs. or more	55.6	54.4	55.3	55.2

Analysis of Data from "All Traffic" Collection Technique

Conversion factors for allowing free-flow data to represent all traffic were done as prescribed in the FHWA document "Interim Speed Monitoring Procedures." These conversion factors were found by dividing a given statistic for all vehicles by the same statistic for free-flow. This was done by highway classification for, percent vehicles exceeding 55 mph, average speed, median speed, 85th percentile speed, percent exceeding 60 mph, and percent exceeding 65 mph. These factors are shown in Table 10.

The computation for the weighted statewide compliance level (Percent vehicles exceeding 55 mph) is shown at the bottom of Table 10. Computation of statewide averages for the other statistics was done using the same technique and weighting factors. These averages are also included in Table 10.

Figure 2 shows the trend during the past four years of the statewide weighted average speed and percent vehicles exceeding 55 mph. These graphs show that while the recorded speeds have increased during the last two quarters, this increase is not significant. It may also be noted that other than the two previous quarters, the speeds recorded during this quarter are the lowest since the January - March 1977 quarter.

Conclusions

The overall results indicate that the vehicle speeds on Indiana highways were almost exactly the same during this quarter as they were during the October - December 1979 quarter. The average free flow speed has only decreased by 0.1 mph. Likewise, the changes in average speed for each vehicle type and each highway classification have all been less than 1.0 mph.

The results from the "all vehicle" data also infer the same conclusion that the overall speeds have not changed significantly during these last two quarters. The data by this method has shown a small increase in speeds from



## SPEED SUMMARY REPORT

Send to Office of Highway Planning HHP-44

QUARTERLY REPORT-CALENDAR QUARTER ENDING March 31, 1980

STATE Indiana (State Code, Quarter, Year)

SYSTEM	CARD NO.	VMT WEIGHTING FACTOR	MILES	No. of SESSIONS	No. of VEHICLES OBSERVED	DATA TYPE	PERCENT EXCEEDING 55 MPH	SPEED			PERCENT EXCEEDING	
								AVE.	MEDIAN	85th PER. CENTILE	60 MPH	65 MPH
INTERSTATE URBAN	(1-2) 12	(6-11) 11615	(12-17) 121181	(18-20) 12	(21-26) 1181512	Free Flow	(27-30) 7218	(31-34) 15810	(35-38) 15713	(39-42) 16117	(43-46) 121713	(47-50) 11419
	13					All Vehicle Factor	9157	9915	9915	9918	9112	11041
	14					All Vehicles	16197	1577	1577	1616	2419	151
INTERSTATE RURAL	(1-2) 22	(6-11) 21511	(12-17) 18491	(18-20) 14	(21-26) 1161911	Free Flow	(27-30) 7197	(31-34) 15818	(35-38) 15811	(39-42) 16216	(43-46) 13213	(47-50) 11518
	23					All Vehicle Factor	9149	9915	9915	9917	9210	11138
	24					All Vehicles	17156	15815	1578	1624	2917	166
MULTI-LANE DIVIDED	(1-2) 32	(6-11) 11710	(12-17) 16571	(18-20) 14	(21-26) 117107	Free Flow	(27-30) 5194	(31-34) 15613	(35-38) 15610	(39-42) 16013	(43-46) 11616	(47-50) 121
	33					All Vehicle Factor	9166	9913	9915	10000	9716	1174
	34					All Vehicles	1574	1559	1557	16013	1612	127
MULTI-LANE DIVIDED (Included in multi-lane divided classification)	(1-2) 42	(6-11)	(12-17)	(18-20)	(21-26)	Free Flow	(27-30)	(31-34)	(35-38)	(39-42)	(43-46)	(47-50)
	43					All Vehicle Factor						
	44					All Vehicles						
TWO LANE RURAL	(1-2) 52	(6-11) 414	(12-17) 80301	(18-20) 4	(21-26) 11720	Free Flow	(27-30) 524	(31-34) 1557	(35-38) 1553	(39-42) 16014	(43-46) 11619	(47-50) 1313
	53					All Vehicle Factor	9156	9913	9915	10003	1024	1485
	54					All Vehicles	15101	15513	1550	16010	11713	1419
STATEWIDE TOTALS	(1-2) 64	(6-11) 1101010	(12-17) 1971541	(18-20) 114	(21-26) 1151710	All Vehicles	(27-30) 16110	(31-34) 15616	(35-38) 15616	(39-42) 16112	(43-46) 2115	(47-50) 1150

PERCENT OF TOTAL STATEWIDE VMT ON FACILITIES WITH 55 MPH SPEED LIMITS.

100 40 20 0





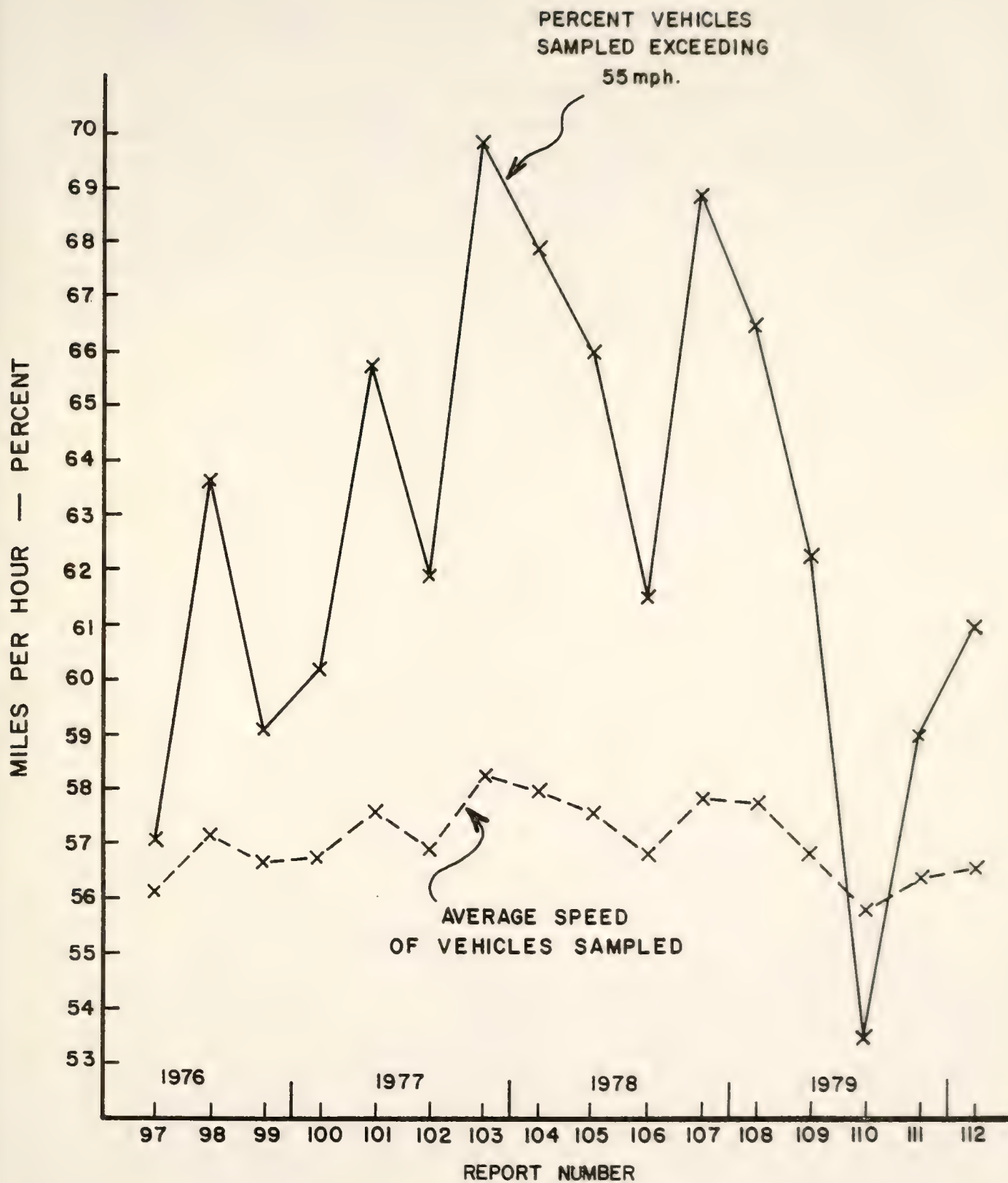


FIGURE: 2 TRENDS IN SPEEDS





the previous quarter. This contradicts the slight decrease shown in the free flow data. The reason for this discrepancy may be because of statistical error.

The value of 61.0 percent for the statewide compliance level is above the maximum of 60 percent allowed by Federal regulations for the year ending September 30, 1980, to receive full highway funding. However, the first quarter of this year showed a value lower than 60 percent. It is also possible that the remaining two quarters will be at lower values - but they also could be at higher values.



## APPENDIX





# TABLE A1 SPEED DATA FREE FLOW

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 miles north of SR 160

NO. OF LANES 4 TYPE CF SURFACE Blacktop WEATHER Clear

## THIS OBSERVATION

DATE 3-27-80  
TIME 9:50 - 10:50 AM NB  
8:35 - 9:25 AM SB

## LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 12-5-79  
TIME 10:25 - 11:55 AM NB  
8:15 - 9:35 AM SB

	PASSENGER CARS				INDIANA				NON-INDIANA				ALL				TRUCKS			
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	240	247	123	123	91	87	156	177	216	216	177	70	156	156	156	107	>5000	LBS.	>5000	LBS.
AVERAGE SPEED (MPH)	58.00	59.21	58.40	58.40	58.79	59.60	59.46	58.25	59.00	58.25	57.90	57.54	59.40	58.72	58.72	58.72	58.72	58.72	58.72	58.72
STANDARD DEVIATION	4.436	3.688	3.870	3.870	3.680	5.073	3.681	4.229	4.229	4.229	4.200	4.880	4.780	3.693	3.693	3.693	3.693	3.693	3.693	3.693
PERCENT	24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CF	29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VEHICLES	34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAVELING	39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AT JCR	44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS THAN	49 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	54 MPH	2.4	15.7	10.9	14.3	14.9	9.0	18.6	13.9	13.9	20.0	28.6	11.5	12.1	12.1	12.1	12.1	12.1	12.1	12.1
	59 MPH	27.6	53.4	53.4	57.1	55.2	51.3	59.3	55.1	59.3	65.0	61.4	51.3	57.9	57.9	57.9	57.9	57.9	57.9	57.9
	64 MPH	88.1	92.7	92.7	93.4	80.5	92.3	94.4	90.7	94.4	96.7	94.3	88.5	94.4	94.4	94.4	94.4	94.4	94.4	94.4
	69 MPH	98.6	99.6	99.6	100.0	96.6	99.4	100.0	99.5	100.0	100.0	100.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION	NB.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF VEHICLES	09	119	53	53	22	46	97	93	112	93	27	40	85	53	53	53	53	53	53	53
AVERAGE SPEED	59.40	59.25	58.50	58.50	59.27	59.70	59.25	58.52	59.60	58.52	59.20	58.13	59.80	58.81	58.81	58.81	58.81	58.81	58.81	58.81
DIRECTION	SB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF VEHICLES	111	128	70	70	69	41	59	84	104	84	33	30	71	54	54	54	54	54	54	54
AVERAGE SPEED	58.40	59.17	58.30	58.30	58.64	59.50	59.80	57.96	58.30	57.96	56.80	56.77	59.00	58.63	58.63	58.63	58.63	58.63	58.63	58.63





# TABLE A2 SPEED DATA FREE FLOW

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of SR 18 WEATHER Sunny-Clear

NO. OF LANES 4 TYPE OF SURFACE Blacktop

THIS OBSERVATION DATE 3-3-80 4-3-80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

TIME 2:05 - 2:35 PM (3-3) 1:15 - 1:40 PM (4-3) NB DATE 12-11-79

TIME 11:00 - 12:20 PM SB TIME 9:40 - 10:40 AM NB

TIME 10:50 - 11:50 AM SB

	OBSERVATION			PASSENGER CARS			NON-INDIANA			TRUCKS		
	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
NUMBER OF VEHICLES	246	293	170	177	116	183	76	134	44	44	37	139
AVE. SPEED (MPH)	59.0	58.60	60.20	58.64	58.53	59.30	58.80	58.46	58.20	57.49	59.70	58.84
STANDARD DEVIATION	5.12	4.47	5.15	4.60	4.28	5.77	4.97	4.73	5.83	4.35	5.73	4.84
PERCENT	24	0	0	0	0	0	0	0	0	0	0	0
OF	29	0	0	0	0	0	0	0	0	0	0	0
VEHICLES	34	0	0	0	0	0	0	0	0	0	0	0
TRAVELING	39	0	0	0	0	0	0	0	0	0	0	0
AT CR	44	0	0	0	0	0	0	0	0	0	0	0
LESS THAN	49	17	24	17	17	71	26	30	91	23	54	7
	54	17	12	16	19	15	15	17	20	18	14	16
	59	61	47	62	60	48	60	59	56	73	46	54
	64	90	81	89	90	81	89	89	81	91	81	88
	69	98	96	98	98	97	94	98	97	97	97	99
	74	100	99	100	100	99	100	100	100	100	99	100
	79	100	99	100	100	100	100	100	100	100	100	100
	84	100	100	100	100	100	100	100	100	100	100	100
	89	100	100	100	100	100	100	100	100	100	100	100
DIRECTION NB												
NUMBER OF VEHICLES	185	153	101	89	64	80	34	62	12	19	61	43
AVERAGE SPEED	60.00	59.37	60.80	59.38	59.34	61.90	60.40	59.81	60.00	57.63	62.50	60.77
DIRECTION SB												
NUMBER OF VEHICLES	111	140	69	88	52	103	42	72	25	18	78	54
AVERAGE SPEED	58.60	57.76	59.30	57.90	57.52	57.30	57.50	57.31	56.90	57.33	57.50	57.30





# TABLE A3 SPEED DATA FREE FLOW

STATION RI-30 HIGHWAY I-65 LOCATION 2.15 miles north of SR 14

NO. OF LANES 4 TYPE CF SURFACE Cement WEATHER Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE 3-31-80

TIME 11:10 AM - 12:00 PM NB

12:30 - 1:15 PM SB

		PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
		ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
OBSERVATION	LABI	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES		258		100		158		161		0		0		0		0	
AVERAGE SPEED (MPH)		59.69		59.59		59.75		60.28		0		0		59.42		0	
STANDARD DEVIATION		4.192		4.117		4.250		4.528		0		0		4.574		0	
24 MPH		0		0		0		0		0		0		0		0	
29 MPH		0		0		0		0		0		0		0		0	
34 MPH		0		0		0		0		0		0		0		0	
39 MPH		0		0		0		0		0		0		0		0	
44 MPH		0		0		0		0		0		0		0		0	
49 MPH		8		0		1		1		0		0		2		0	
54 MPH		7		0		7		7		0		0		12		0	
59 MPH		55		0		55		42		0		0		50		0	
64 MPH		89		0		88		83		0		0		90		0	
69 MPH		96		0		96		98		0		0		100		0	
74 MPH		100		0		100		100		0		0		100		0	
79 MPH		100		0		100		100		0		0		100		0	
84 MPH		100		0		100		100		0		0		100		0	
89 MPH		100		0		100		100		0		0		100		0	
DIRECTION																	
NUMBER OF VEHICLES		129		56		73		81		0		0		15		0	
AVERAGE SPEED		59.33		59.29		59.36		59.19		0		0		57.40		0	
DIRECTION																	
NUMBER OF VEHICLES		129		44		85		80		0		0		25		0	
AVERAGE SPEED		60.05		59.98		60.08		61.39		0		0		60.64		0	



LOCATION 3 01 miles east of US 231 1 1/2 hour interval

HI CHWAY I-74

STATION RI-36

WEATHER --- Cloudy.

TYPE 'CF SURFACE Cement-

NO. OF LANES: 4

THIS OBSERVATION

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. \_\_\_\_\_)

DATE 4-1-80; 4-2-80

TIME 9:00 - 11:00 AM EB (4-1-80)

9:15 - 11:40 AM WB (4-2-80)

# TRUCKS

## PASSENGER CARS

11

7

[illegible]







STATION--4L-17-----  
HIGHWAY-us-52-----  
LOCATION--Just east of Co. RD 475 W. Near Klondike-----

NO. OF LANES	TYPE	CF SURFACE	Blacktop	WEATHER	Cloudy	(2025-9-7)	Sunny
4							

THIS OBSERVATION

DATE	TIME	EB	WB
2-25-80	4:30	1:40 PM	12:15 - 1:53 PM
2-25-80	8:25	12:25	12:15 - 1:53 PM
2-25-80	8:55 AM	12:25	12:15 - 1:53 PM
2-25-80	9:05	12:50 PM	12:15 - 1:53 PM

[illegible]

NUMBER	VEHICLE	SPEED	STANDARD DEVIATION	LAST ENT	LAST ENT	LAST ENT	LAST ENT	LAST ENT	LAST ENT
1	314	56	208	280	11	132	81	5	51
2	208	52	84	57	50	132	20	5	10
3	93	55	87	4	967	80	889	5	231
4	181	5	108	5	271	5	647	6	126
5	108	3	108	280	11	132	81	5	51
6	14	314	56	208	11	132	81	5	51
7	208	52	84	57	50	132	20	5	10
8	93	55	87	4	967	80	889	5	231
9	181	5	108	5	271	5	647	6	126
10	108	3	108	280	11	132	81	5	51
11	14	314	56	208	11	132	81	5	51
12	208	52	84	57	50	132	20	5	10
13	93	55	87	4	967	80	889	5	231
14	181	5	108	5	271	5	647	6	126
15	108	3	108	280	11	132	81	5	51
16	14	314	56	208	11	132	81	5	51
17	208	52	84	57	50	132	20	5	10
18	93	55	87	4	967	80	889	5	231
19	181	5	108	5	271	5	647	6	126
20	108	3	108	280	11	132	81	5	51
21	14	314	56	208	11	132	81	5	51
22	208	52	84	57	50	132	20	5	10
23	93	55	87	4	967	80	889	5	231
24	181	5	108	5	271	5	647	6	126
25	108	3	108	280	11	132	81	5	51
26	14	314	56	208	11	132	81	5	51
27	208	52	84	57	50	132	20	5	10
28	93	55	87	4	967	80	889	5	231
29	181	5	108	5	271	5	647	6	126
30	108	3	108	280	11	132	81	5	51
31	14	314	56	208	11	132	81	5	51
32	208	52	84	57	50	132	20	5	10
33	93	55	87	4	967	80	889	5	231
34	181	5	108	5	271	5	647	6	126
35	108	3	108	280	11	132	81	5	51
36	14	314	56	208	11	132	81	5	51
37	208	52	84	57	50	132	20	5	10
38	93	55	87	4	967	80	889	5	231
39	181	5	108	5	271	5	647	6	126
40	108	3	108	280	11	132	81	5	51
41	14	314	56	208	11	132	81	5	51
42	208	52	84	57	50	132	20	5	10
43	93	55	87	4	967	80	889	5	231
44	181	5	108	5	271	5	647	6	126
45	108	3	108	280	11	132	81	5	51
46	14								

26 MPH

[illegible]

MPH	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
MPH	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

39	MPH	1.0	3	1.0	4	0	0	0	1.6	0	1.5	0	1.2
39	MPH	1.0	3	1.0	4	0	0	0	1.6	0	1.5	0	1.2

[illegible][illegible]

VEHICLES	MPH	38.6	38.7	35.7	43.2	43.1	41.5	43.2	43.1	44.2
54	MPH	28.6	28.7	35.7	43.2	43.1	41.5	43.2	43.1	44.2

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

TECHNICAL

	66	8	57	61	28
UNION	-	-	-	-	-
CITY	147	156	140	16	25
TOTAL	-	-	-	-	-
PERCENTAGE	147	156	140	16	25

[illegible][illegible][illegible][illegible][illegible]





# TABLE A6 SPEED DATA FREE FLOW

STATION 41-32 HIGHWAY US 30 LOCATION 2.9 miles west of Watah city limit sign

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Cloudy

## THIS OBSERVATION

DATE 4-11-80

TIME 11:10 AM - 12:20 PM EB

10:00 AM - 11:00 AM WB

## LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 11-20-79

TIME 1:15 - 2:50 PM EB

10:20 - 11:50 AM WB

	PASSENGER CARS				NON-INDIANA				TRUCKS			
	ALL	INDIANA	ENT	LAST	ALL	INDIANA	ENT	LAST	<5000 LBS	ENT	LAST	>5000 LBS
OBSERVATION	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT	ENT
NUMBER OF VEHICLES	239	210	183	29	29	65	186	179	52	52	134	127
AVERAGE SPEED (MPH)	58.5	56.2	56.2	58.7	57.1	56.4	58.4	56.3	58.0	55.2	58.5	56.8
STANDARD DEVIATION	5.6	5.7	4.2	4.8	4.8	3.5	5.0	4.2	5.0	4.9	5.0	3.7
PERCENT												
CF	24	29	24	24	24	24	24	24	24	24	24	24
VEHICLES	44	44	44	44	44	44	44	44	44	44	44	44
TRAVELING	54	54	54	54	54	54	54	54	54	54	54	54
AT JCR	59	59	59	59	59	59	59	59	59	59	59	59
LESS THAN	64	64	64	64	64	64	64	64	64	64	64	64
DIRECTION	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB
NUMBER OF VEHICLES	145	132	88	24	24	44	98	82	30	25	68	57
AVERAGE SPEED	58.0	56.0	55.9	56.8	56.8	56.3	58.7	56.8	58.4	55.3	58.8	57.4
DIRECTION	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	124	116	95	5	5	21	88	97	22	27	66	70
AVERAGE SPEED	58.0	56.4	56.4	58.4	58.4	56.6	58.0	55.9	57.5	55.2	58.1	56.2





TABLE	A7	SPEED	DATA	FREE	FLOW
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STATION	HIGHWAY	LOCATION	TYPE OF SURFACE	WEATHER
41-5	SR 63	0.6 miles south of SR 163	Blacktop	(4-4) Sunny, Clear (3-18)

THIS OBSERVATION

DATE	4-4-80	3-18-80	
TIME	10:20	12:45 PM	NB (4-4-80)
	10:30	12:30 PM	SB (3-18-80)

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ....)

DATE	
TIME	

OBSERVATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES
NUMBER OF VEHICLES	0	200		0	70		0	156		0	107	
AVERAGE SPEED (MPH)	0	56.77		0	57.89		0	55.72		0	56.47	
STANDARD DEVIATION	0	5.183		0	4.169		0	5.402		0	5.497	
24 MPH	0	0		0	0		0	0		0	0	
29 MPH	0	0		0	0		0	0		0	0	
34 MPH	0	0		0	0		0	0		0	0	
39 MPH	0	5		0	0		0	0		0	0	
44 MPH	0	1.5		0	0		0	0		0	0	
49 MPH	0	6.3		0	0		0	0		0	0	
54 MPH	0	23.7		0	0		0	0		0	0	
59 MPH	0	74.1		0	0		0	0		0	0	
64 MPH	0	95.6		0	0		0	0		0	0	
69 MPH	0	99.3		0	0		0	0		0	0	
74 MPH	0	99.6		0	0		0	0		0	0	
79 MPH	0	99.6		0	0		0	0		0	0	
84 MPH	0	100.0		0	0		0	0		0	0	
89 MPH	0	100.0		0	0		0	0		0	0	
DIRECTION	0	116		0	41		0	53		0	28	
NUMBER OF VEHICLES	0	157		0	57.54		0	52.13		0	52.29	
AVERAGE SPEED	0	56.97		0	57.54		0	52.13		0	52.29	
DIRECTION	0	113		0	29		0	103		0	79	
NUMBER OF VEHICLES	0	113		0	58.38		0	57.56		0	57.95	
AVERAGE SPEED	0	57.19		0	58.38		0	57.56		0	57.95	



TABLE A8. SPEED DATA FREE FLOW

STATION 4L-30 HIGHWAY US 30 LOCATION 2.1 miles east of US 31

NO. OF LANES	TYPE OF SURFACE	WEATHER	Clear	Sunny
4	Cement			

THIS OBSERVATION

DATE 3-19-80  
TIME 10:35 AM - 12:02 PM EB  
12:20 PM - 1:50 PM WB

OBSERVATION	PASSENGER CARS			INDIANA			ALL			TRUCKS		
	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-
NUMBER OF VEHICLES	177	124		0	53		0	246		0	44	
AVERAGE SPEED (MPH)	57.13	56.95		0	57.55		0	56.57		0	55.77	
STANDARD DEVIATION	3.996	4.299		0	3.172		0	4.460		0	4.855	
24 MPH	0	0		0	0		0	0		0	0	
29 MPH	0	0		0	0		0	0		0	0	
34 MPH	0	0		0	0		0	4		0	0	
39 MPH	0	0		0	0		0	8		0	0	
44 MPH	0	8		0	0		0	12		0	0	
49 MPH	0	32		0	0		0	29		0	0	
54 MPH	0	128		0	172		0	272		0	0	
59 MPH	0	702		0	752		0	742		0	0	
64 MPH	0	960		0	981		0	972		0	0	
69 MPH	0	1000		0	1002		0	1000		0	0	
74 MPH	0	1000		0	1002		0	1000		0	0	
79 MPH	0	1000		0	1002		0	1000		0	0	
84 MPH	0	1000		0	1000		0	1000		0	0	
89 MPH	0	1000		0	1000		0	1000		0	0	
DIRECTION												
NUMBER OF VEHICLES	83	54		0	29		0	128		0	23	
AVERAGE SPEED	57.33	57.43		0	57.14		0	55.49		0	54.57	
DIRECTION												
NUMBER OF VEHICLES	24	70		0	24		0	118		0	21	
AVERAGE SPEED	56.26	56.59		0	58.04		0	57.73		0	57.10	







# TABLE A9 SPEED DATA FREE FLOW

STATION 21-18 HIGHWAY US 35 LOCATION 2.5 miles east of I-69 WEATHER Cloudy

NO. OF LANES 2 TYPE OF SURFACE Blacktop

THIS OBSERVATION DATE 4-3-80 TIME 10:20 AM - 12:59 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111) DATE 11-27-79 TIME 10:50 AM - 2:50 PM

	OBSERVATION	LAST	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
			ENT	LAST	PRES	ENT	LAST	PRES	ENT	LAST	PRES	ENT	LAST	PRES
NUMBER OF VEHICLES	271	256	241	16	15	176	166	176	176	166	176	79	87	116
AVE. SPEED (MPH)	57.50	54.82	54.65	58.30	57.60	54.47	55.30	54.47	54.47	55.30	54.23	56.60	54.20	54.59
STANDARD DEVIATION	5.00	5.43	5.43	5.24	4.67	4.85	5.24	4.85	4.85	5.24	4.99	4.67	5.49	4.80
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	4	4	4	0	0	0	0	0	0	0	0	0	0	0
39 MPH	8	8	8	0	0	0	0	0	0	0	0	0	0	0
44 MPH	13	13	13	0	0	0	0	0	0	0	0	0	0	0
49 MPH	27	27	27	0	0	0	0	0	0	0	0	0	0	0
54 MPH	33	33	33	0	0	0	0	0	0	0	0	0	0	0
59 MPH	24	24	24	0	0	0	0	0	0	0	0	0	0	0
64 MPH	68	68	68	0	0	0	0	0	0	0	0	0	0	0
69 MPH	90	90	90	0	0	0	0	0	0	0	0	0	0	0
74 MPH	98	98	98	0	0	0	0	0	0	0	0	0	0	0
79 MPH	100	100	100	0	0	0	0	0	0	0	0	0	0	0
84 MPH	100	100	100	0	0	0	0	0	0	0	0	0	0	0
89 MPH	100	100	100	0	0	0	0	0	0	0	0	0	0	0
DIRECTION	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB	EB
NUMBER OF VEHICLES	144	150	144	6	6	70	83	70	70	83	30	41	42	40
AVERAGE SPEED	57.60	54.48	54.31	56.50	58.50	53.29	55.10	53.29	53.29	55.10	53.27	56.40	53.80	53.30
DIRECTION	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	107	106	97	10	9	106	83	106	106	83	30	38	45	26
AVERAGE SPEED	57.20	55.30	55.14	59.30	57.00	55.25	55.60	55.25	55.25	55.60	55.20	56.80	54.50	55.28





# TABLE ALO SPEED DATA FREE FLOW

STATION 2L-54 HIGHWAY US 231 LOCATION 1.1 miles south of SB 234

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Sunny Clear

THIS OBSERVATION LAIST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 3-6-80 DATE 11-21-79  
TIME 9:30 AM - 3:25 PM TIME 11:30 AM - 2:00 PM

		PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
(OBSERVATION																	
NUMBER OF VEHICLES		262	263	245	242	17	21	183	158	183	158	85	67	85	67	91	91
AVERAGE SPEED (MPH)		57.10	56.37	57.10	56.29	57.60	57.38	56.10	55.35	56.10	55.35	56.80	53.99	55.60	53.99	56.35	56.35
STANDARD DEVIATION		5.089	5.886	5.162	5.461	3.985	6.225	6.157	5.875	6.157	5.875	6.525	5.604	5.795	5.604	5.898	5.898
24 MPH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH		0	0	0	0	0	0	5	6	5	6	1.2	1.5	0	1.5	0	0
39 MPH		0	0	0	0	0	0	5	2.5	5	2.5	1.2	4.5	0	4.5	1.1	1.1
44 MPH		28	1.9	8	2.1	0	0	3.8	3.8	3.8	3.8	3.5	6.0	4.1	6.0	2.2	2.2
49 MPH		52.3	11.0	5.3	10.7	5.9	14.3	13.1	14.6	13.1	14.6	12.9	11.9	13.3	11.9	16.5	16.5
54 MPH		26.7	33.5	27.8	33.9	11.8	28.6	37.2	38.6	37.2	38.6	34.1	46.3	39.8	46.3	33.0	33.0
59 MPH		75.2	76.0	75.5	77.7	70.6	57.1	71.0	75.9	71.0	75.9	62.4	86.6	78.6	86.6	68.1	68.1
64 MPH		93.1	93.2	93.1	93.4	94.1	90.5	95.1	95.6	95.1	95.6	91.8	98.5	96.0	98.5	93.4	93.4
69 MPH		98.1	97.0	98.0	96.7	100.0	100.0	98.9	100.0	98.9	100.0	98.8	100.0	99.0	100.0	100.0	100.0
74 MPH		99.2	99.2	99.2	99.2	100.0	100.0	99.5	100.0	99.5	100.0	100.0	100.0	99.0	100.0	100.0	100.0
79 MPH		100.0	99.6	100.0	99.6	100.0	100.0	99.5	100.0	99.5	100.0	100.0	100.0	99.0	100.0	100.0	100.0
84 MPH		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB																	
NUMBER OF VEHICLES		106	140	115	136	1	4	94	80	94	80	44	33	50	33	47	47
AVERAGE SPEED		58.00	57.36	57.90	57.36	62.00	57.50	56.60	56.94	56.60	56.94	57.50	55.33	55.80	55.33	58.06	58.06
DIRECTION SB																	
NUMBER OF VEHICLES		146	123	130	106	16	17	89	78	89	78	41	34	48	34	44	44
AVERAGE SPEED		56.40	55.24	56.30	54.91	57.30	57.35	55.60	53.72	55.60	53.72	56.00	52.68	55.40	52.68	54.52	54.52





# TABLE All SPEED DATA FREE FLOW

STATION 21-37 HIGHWAY US 231 LOCATION 0.6 miles north of SR 16

NO. OF LANES 2 TYPE CF SURFACE Blacktop WEATHER Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE 3-20-80  
TIME 9:15 AM - 2:30 PM

PASSENGER CARS										TRUCKS									
INDIANA										<5000 LBS.									
ALL										>5000 LBS.									
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**TABLE A12--SPEED DATA**

STATION 2L-51  
HIGHWAY US 231  
LOCATION 5.55 miles north of SR 56

NO. OF LANES	TYPE	CF SURFACE	WEATHER
2	2	Blacktop	Cloudy

THIS OBSERVATION

DATE 3-26-80

TIME 8:50 AM - 12:20 PM  
TIME

[illegible]







# TABLE A13 SPEED DATA FREE FLOW

STATION MI-6 HIGHWAY I-65 LOCATION Just east of White River

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Cloudy

## THIS OBSERVATION

DATE 4-10-80  
TIME 11:35 AM EB  
10:00 - 10:26 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)  
DATE 11-30-79  
TIME 10:20 AM EB  
10:55 - 11:18 AM WB

	PASSENGER CARS				INDIANA				NON-INDIANA				ALL				TRUCKS			
	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI
OBSERVATION	288	248	243	40	48	137	137	71	64	66	64	66	64	66	64	66	64	66	64	66
NUMBER OF VEHICLES	288	248	243	40	48	137	137	71	64	66	64	66	64	66	64	66	64	66	64	66
AVE. SPEED (MPH)	57.80	57.90	58.64	57.80	58.42	55.80	56.88	56.90	57.36	54.70	57.36	54.70	56.47	56.47	57.36	54.70	56.47	56.47	57.36	54.70
STANDARD DEVIATION	4.107	4.267	4.931	3.692	3.530	5.164	4.294	4.278	3.574	5.378	3.574	5.378	4.543	4.543	3.574	5.378	4.543	4.543	3.574	5.378
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIRECTION	EB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	182	112	133	20	24	80	58	41	23	39	23	39	23	39	23	39	23	39	23	39
AVERAGE SPEED	57.90	57.90	59.14	58.00	57.75	55.60	57.17	57.00	58.17	54.20	58.17	54.20	56.51	56.51	58.17	54.20	56.51	56.51	58.17	54.20
DIRECTION	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	136	134	110	20	24	57	79	30	41	27	41	27	38	38	41	27	38	38	41	27
AVERAGE SPEED	57.90	58.23	58.05	57.50	59.08	56.10	56.67	56.80	56.90	55.30	56.90	55.30	56.42	56.42	56.90	55.30	56.42	56.42	56.90	55.30





# TABLE A14 SPEED DATA FREE FLOW

STATION U2-07 HIGHWAY I-70 LOCATION 0.7 miles east of west leg of I-465

NO. OF LANES 6 TYPE OF SURFACE Cement WEATHER Cloudy

## THIS OBSERVATION

DATE 3-25-80  
TIME 10:50 - 12:00 PM EB  
1:00 - 2:20 PM WB

## LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 108)

DATE 3-27-79  
TIME 1:44 - 2:19 PM EB  
12:33 - 1:22 PM WB

	PASSENGER CARS				TRUCKS			
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS	>5000 LBS	PRES-	PRES-
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI
NUMBER OF VEHICLES	233	185	0	48	0	63	0	128
AVERAGE SPEED (MPH)	58.07	57.94	0	58.58	0	57.76	0	57.59
STANDARD DEVIATION	4.177	4.298	0	3.666	0	4.117	0	5.394
PERCENT								
OF								
VEHICLES	2.1	2.7	0	0	0	0	0	8.3
TRAVELING	14.6	16.2	0	8.3	0	4.8	0	2.3
AT OR	64.4	65.4	0	60.4	0	73.0	0	25.0
LESS THAN	94.0	94.1	0	93.8	0	88.9	0	64.8
	99.1	98.9	0	100.0	0	100.0	0	93.0
	100.0	100.0	0	100.0	0	100.0	0	96.9
	100.0	100.0	0	100.0	0	100.0	0	100.0
	100.0	100.0	0	100.0	0	100.0	0	100.0
	100.0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION								
NUMBER OF VEHICLES	115	96	0	19	0	32	0	67
AVERAGE SPEED	58.22	58.16	0	58.53	0	57.94	0	57.84
DIRECTION								
NUMBER OF VEHICLES	118	89	0	29	0	31	0	61
AVERAGE SPEED	57.92	57.70	0	58.62	0	57.58	0	57.33





TABLE AL5 SPEED DATA FREE FLOW

STATION RIALK HIGHWAY Rural Interstate LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE Jan - Mar 1980

TIME

	OBSERVATION	PASSENGER CARS				TRUCKS			
		INDIANA		NON-INDIANA		ALL		<5000 LBS.	
		PRES-		PRES-		PRES-		PRES-	
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES		1033	449	0	584	0	658	0	199
AVERAGE SPEED (MPH)		58.85	58.60	0	59.04	0	58.72	0	57.65
STANDARD DEVIATION		4.216	4.346	0	4.107	0	4.382	0	4.529
24 MPH		0	0	0	0	0	0	0	0
29 MPH		0	0	0	0	0	0	0	0
34 MPH		0	0	0	0	0	0	0	0
39 MPH		0	0	0	0	0	0	0	0
44 MPH		0	0	0	0	0	0	0	0
49 MPH		1.3	1.6	0	1.0	0	2.3	0	3.0
54 MPH		13.3	15.1	0	11.8	0	14.9	0	23.1
59 MPH		60.7	62.1	0	59.6	0	57.9	0	66.3
64 MPH		91.1	91.1	0	91.1	0	90.4	0	94.0
69 MPH		98.4	98.9	0	97.9	0	99.4	0	99.5
74 MPH		99.9	100.0	0	99.8	0	100.0	0	100.0
79 MPH		100.0	100.0	0	100.0	0	100.0	0	100.0
84 MPH		100.0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		100.0	100.0	0	100.0	0	100.0	0	100.0



# TABLE\_A16\_SPEED DATA FREE FLOW

STATION 414LK HIGHWAY 4-Lane LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE Jan - Mar 1980 DATE TIME

	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	PRES-			PRES-			PRES-			PRES-			PRES-		
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	C	1003	C	787	C	216	C	216	C	704	C	210	C	210	C
AVE. SPEED (MPH)	C	56.52	C	56.33	C	57.22	C	57.22	C	56.06	C	55.07	C	55.07	C
STANDARD DEVIATION	C	4.686	C	4.889	C	3.782	C	3.782	C	4.969	C	5.469	C	5.469	C
24 MPH	C	0	C	0	C	0	C	0	C	0	C	0	C	0	C
29 MPH	C	0	C	0	C	0	C	0	C	0	C	0	C	0	C
34 MPH	C	1	C	1	C	0	C	0	C	0	C	0	C	0	C
39 MPH	C	2	C	3	C	0	C	0	C	0	C	0	C	0	C
44 MPH	C	1.0	C	1.3	C	0	C	0	C	2.1	C	1.3	C	1.3	C
49 MPH	C	5.8	C	6.7	C	2.3	C	2.3	C	8.1	C	11.9	C	11.9	C
54 MPH	C	30.0	C	32.5	C	20.8	C	20.8	C	32.8	C	40.5	C	40.5	C
59 MPH	C	77.6	C	77.5	C	77.8	C	77.8	C	77.0	C	81.9	C	81.9	C
64 MPH	C	96.3	C	95.9	C	97.7	C	97.7	C	97.0	C	96.2	C	96.2	C
69 MPH	C	99.5	C	99.5	C	99.5	C	99.5	C	99.6	C	99.0	C	99.0	C
74 MPH	C	99.7	C	99.6	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C
79 MPH	C	99.9	C	99.9	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C
84 MPH	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C
89 MPH	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C	100.0	C

PERCENT  
CF  
VEHICLES  
TRAVELING  
AT OR  
LESS THAN





# TABLE AL7--SPEED DATA FREE FLOW

STATION 2LALL HIGHWAY 2-Lane LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE Jan-Mar 1980

DATE TIME

OBSERVATION NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	PERCENT CF VEHICLES TRAVELING AT OR LESS THAN	PASSENGER CARS				TRUCKS			
		INDIANA		NON-INDIANA		<5000 LBS.		>5000 LBS.	
		ALL PRES-	ENT LAST	ALL PRES-	ENT LAST	ALL PRES-	ENT LAST	ALL PRES-	ENT LAST
24 MPH		980	0	918	0	740	0	306	0
29 MPH		55.93	0	55.81	0	55.31	0	54.85	0
34 MPH		5.693	0	5.672	0	5.501	0	5.345	0
39 MPH		0	0	0	0	0	0	0	0
44 MPH		0	0	0	0	0	0	0	0
49 MPH		1	0	1	0	3	0	3	0
54 MPH		3	0	3	0	9	0	1.6	0
59 MPH		2.4	0	2.6	0	3.1	0	3.3	0
64 MPH		11.4	0	11.7	0	12.6	0	12.1	0
69 MPH		39.5	0	40.1	0	41.2	0	44.1	0
74 MPH		77.4	0	78.2	0	72.6	0	82.4	0
79 MPH		94.2	0	94.4	0	96.2	0	96.4	0
84 MPH		97.9	0	97.9	0	99.6	0	99.7	0
89 MPH		99.4	0	99.5	0	100.0	0	100.0	0
		99.9	0	99.9	0	100.0	0	100.0	0
		100.0	0	100.0	0	100.0	0	100.0	0
		100.0	0	100.0	0	100.0	0	100.0	0



TABLE A18 SPEED DATA FREE FLOW

STATION U1ALE HIGHWAY Urban Interstate LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE Jan-Mar 1980  
TIME

OBSERVATION NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION PERCENT CF VEHICLES TRAVELING AT CR LESS THAN	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	INDIANA			PRES-			PRES-			<5000 LBS.		
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	LAST	ENT	LAST
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	4	0	0	0	0	0	0	0	0	0	0
49 MPH	0	1.9	0	0	0	0	0	0	0	0	0	0
54 MPH	0	16.6	0	0	0	0	0	0	0	0	0	0
59 MPH	0	62.8	0	0	0	0	0	0	0	0	0	0
64 MPH	0	91.6	0	0	0	0	0	0	0	0	0	0
69 MPH	0	98.3	0	0	0	0	0	0	0	0	0	0
74 MPH	0	100.0	0	0	0	0	0	0	0	0	0	0
79 MPH	0	100.0	0	0	0	0	0	0	0	0	0	0
84 MPH	0	100.0	0	0	0	0	0	0	0	0	0	0
89 MPH	0	100.0	0	0	0	0	0	0	0	0	0	0





# TABLE A19 SPEED DATA FREE FLOW

STATION ALK HIGHWAY Indiana System LOCATION See Individual Station

NO. OF LANES            TYPE CF SURFACE WEATHER           

THIS OBSERVATION DATE Jan - Mar 1980 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.     )  
 TIME            TIME           

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	INDIANA			PRES-			PRES-			<5000 LBS.		
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	3540	2582	0	958	0	2430	0	842	0	>5000 LBS.	0	1588
AVE. SPEED (MPH)	57.31	56.87	0	58.49	0	56.72	0	55.98	0	55.98	0	57.12
STANDARD DEVIATION	4.990	5.196	0	4.169	0	5.150	0	5.203	0	5.203	0	5.077
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	1	1	0	0	0	0	0	0	0	0	0	0
39 MPH	1	2	0	0	0	0	0	0	0	0	0	0
44 MPH	1	1	0	0	0	0	0	0	0	0	0	0
49 MPH	5	6	0	1	0	1	0	0	0	0	0	0
54 MPH	25	29	0	14	0	7	0	0	0	0	0	0
59 MPH	70	72	0	64	0	29	0	0	0	0	0	0
64 MPH	93	93	0	92	0	70	0	0	0	0	0	0
69 MPH	98	98	0	98	0	94	0	0	0	0	0	0
74 MPH	99	99	0	99	0	99	0	0	0	0	0	0
79 MPH	99	99	0	99	0	99	0	0	0	0	0	0
84 MPH	100	100	0	100	0	100	0	0	0	0	0	0
89 MPH	100	100	0	100	0	100	0	0	0	0	0	0

PERCENT OF VEHICLES TRAVELING AT OR LESS THAN



TABLE A20 SPEED DATA Every 2nd Vehicle

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of SR 18

NO. OF LANES 4 TYPE CF SURFACE Blacktop WEATHER Sunny Clear

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE 3-3-80 4-3-80 DATE  
TIME 2:35 PM 3:05 PM (3-3) 1:46 - 2:30 PM (4-3) WB TIME  
11:30 AM - 1:30 PM (3-3) SB

	PASSENGER CARS			TRUCKS		
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	>5000 LBS.
	PRES-	ENT	LAST	PRES-	ENT	LAST
OBSERVATION	LAST	ENT	LAST	LAST	ENT	LAST
NUMBER OF VEHICLES	0	280	0	0	146	0
AVERAGE SPEED (MPH)	0	58.66	0	0	58.18	0
STANDARD DEVIATION	0	4.561	0	0	5.394	0
24 MPH	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0
49 MPH	0	2.5	0	0	0	0
54 MPH	0	16.8	0	0	0	0
59 MPH	0	62.9	0	0	0	0
64 MPH	0	90.7	0	0	0	0
69 MPH	0	98.2	0	0	0	0
74 MPH	0	92.6	0	0	0	0
79 MPH	0	92.4	0	0	0	0
84 MPH	0	100.0	0	0	0	0
89 MPH	0	100.0	0	0	0	0
DIRECTION NB	0	100.0	0	0	0	0
NUMBER OF VEHICLES	0	145	0	0	69	0
AVERAGE SPEED	0	58.86	0	0	59.52	0
DIRECTION SB	0	135	0	0	77	0
NUMBER OF VEHICLES	0	58.44	0	0	56.97	0
AVERAGE SPEED	0	58.44	0	0	56.97	0





TABLE\_A21\_SPEED DATA EVERY 2nd VEHICLE

STATION\_R1-36 HJ(HWY) I-74 LOCATION 3.01 miles east of US 231, 1/2-hr intervals WEATHER Cloudy (4-1) Sunny (4-2)

AC. OF LANES 4 TYPE CF SURFACE Cement

THIS OBSERVATION DATE 4-1-80 4-2-80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

TIME 9:30 AM 1:45 PM (4-1) FB  
9:45 AM 2:05 AM (4-2) WB

	PASSENGER CARS				TRUCKS			
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS	>5000 LBS	PRES	PRES
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	216	87	129	206	0	44	0	162
AVERAGE SPEED (MPH)	58.56	58.17	58.82	58.31	0	57.05	0	58.65
STANDARD DEVIATION	4.332	4.166	4.438	4.287	0	4.885	0	4.059
PERCENT								
OF								
VEHICLES	1.4	1.1	1.6	1.9	0	3	0	0
TRAVELING	13.4	12.6	14.0	19.9	0	27.2	0	17.9
AT CR	66.2	69.0	64.3	61.2	0	75.0	0	57.4
LESS THAN	89.4	89.7	89.1	93.7	0	95.5	0	93.2
	98.6	100.0	97.7	99.0	0	97.7	0	97.4
	100.0	100.0	100.0	100.0	0	100.0	0	100.0
	100.0	100.0	100.0	100.0	0	100.0	0	100.0
	100.0	100.0	100.0	100.0	0	100.0	0	100.0
	100.0	100.0	100.0	100.0	0	100.0	0	100.0
DIRECTION								
NUMBER OF VEHICLES	101	47	54	110	0	24	0	86
AVERAGE SPEED	57.71	57.40	57.98	58.09	0	56.71	0	58.48
DIRECTION								
NUMBER OF VEHICLES	115	40	75	96	0	33	0	70
AVERAGE SPEED	59.30	59.07	59.43	58.56	0	57.45	0	58.90



STATION 4L-17 HIGHWAY US 52 LOCATION Just east of Co. RD 475 W. Near Klondike

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Sunny

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE 4-7-80 4-16-80  
 TIME 11:50 AM - 3:00 PM EB (4-7)  
 9:35 AM - 2:55 PM (4-16) WB

PASSENGER CARS										TRUCKS									
INDIANA										<5000 LBS.									
PRES-										PRES-									
LAST ENT										LAST ENT									
LAST ENT										LAST ENT									
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# TABLE A23 SPEED DATA Every 2nd Vehicle

STATION 41-05 HIGHWAY SR 63 LOCATION 0.6 miles south of SR 163 WEATHER Cloudy (4-4) Clear (3-18)

NO. OF LANES 4 TYPE OF SURFACE Blacktop

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE 4-4-80 3-18-80  
 TIME 10:50 AM - 2:00 PM (4-4) NB  
 11:00 AM - 3:30 PM (3-18) SB

PASSENGER CARS										TRUCKS									
INDIANA					NON-INDIANA					<5000					LBS.				
PRES-					PRES-					PRES-					PRES-				
ALL					ALL					ALL					ALL				
PRES-					PRES-					PRES-					PRES-				
LAST					LAST					LAST					LAST				
ENT					ENT					ENT					ENT				
260					199					61					164				
57.19					56.58					59.16					55.69				
4.703					4.495					4.859					5.345				
0					0					0					0				
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TABLE A24 SPEED DATA Every 2nd Vehicle

STATION 2L-54 HIGHWAY US 231 LOCATION 1.1 miles south of SR 234

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Clear, Sunny

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )  
 DATE 3-6-80, 3-7-80  
 TIME 10:00 AM - 3:40 PM (3-6) 9:40 - 12:52 (3-7)

	OBSERVATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS			PRES	LBS.	PRES	LBS.
		LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES				
NUMBER OF VEHICLES		243	225	181	181	181	181	181	181	181	181	181	181				
AVERAGE SPEED (MPH)		55.91	56.01	54.61	54.61	54.61	54.61	54.61	54.61	54.61	54.61	54.61	54.61				
STANDARD DEVIATION		6.170	6.290	4.313	4.313	4.313	4.313	4.313	4.313	4.313	4.313	4.313	4.313				
24 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
29 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
34 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
39 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
44 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
49 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
54 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
59 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
64 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
69 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
74 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
79 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
84 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
89 MPH		0	0	0	0	0	0	0	0	0	0	0	0				
DIRECTION NB																	
NUMBER OF VEHICLES		135	128	79	79	79	79	79	79	79	79	79	79				
AVERAGE SPEED		55.86	56.04	54.57	54.57	54.57	54.57	54.57	54.57	54.57	54.57	54.57	54.57				
DIRECTION SB																	
NUMBER OF VEHICLES		108	97	11	11	11	11	11	11	11	11	11	11				
AVERAGE SPEED		55.97	55.98	55.91	55.91	55.91	55.91	55.91	55.91	55.91	55.91	55.91	55.91				





TABLE	A25	SPEED	DATA	Every	2nd	Vehicle
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STATION 2L-37 HIGHWAY US 231 LOCATION 0.6 miles north of SR 16

NO. OF LANES	2	TYPE OF SURFACE	Blacktop	WEATHER	Cloudy

THIS OBSERVATION

DATE 3-20-80  
TIME 9:45 AM - 1:05 PM

OBSERVATION	PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	280	280	0	0	0	0	0	0
AVERAGE SPEED (MPH)	55.85	57.50	0	0	0	54.56	0	55.01
STANDARD DEVIATION	5.862	6.719	0	0	0	6.342	0	6.415
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0	0	0
DIRECTION	NB	NB	0	0	0	0	0	0
NUMBER OF VEHICLES	153	149	0	0	0	69	0	37
AVERAGE SPEED	56.22	56.09	0	0	0	54.67	0	54.97
DIRECTION	SB	SB	0	0	0	0	0	0
NUMBER OF VEHICLES	135	131	0	0	0	75	0	45
AVERAGE SPEED	55.53	55.88	0	0	0	54.45	0	55.01



TABLE	A26	SPEED	DATA	Every	2nd	Vehicle
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STATION_ UI-06
HIGHWAY I-65
LOCATION Just east of White River
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NO. OF LANES	TYPE OF SURFACE	WEATHER
6	Concrete	Cloudy

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. _____)
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DATE 4-10-80  
TIME 12:00 4 1:10 PM EB  
10:30 - 11:10 AM WB

OBSERVATION	PASSENGER CARS			TRUCKS		
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS	>5000 LBS
	PRES-	ENI	LASI	PRES-	ENI	LASI
NUMBER OF VEHICLES	307	251	0	120	0	0
AVERAGE SPEED (MPH)	58.00	57.65	0	55.94	0	0
STANDARD DEVIATION	4.466	4.288	0	4.682	0	0
24 MPH	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0
44 MPH	3	4	0	8	0	0
49 MPH	2	2	0	5	0	0
54 MPH	18	12	0	35	0	0
59 MPH	68	71	0	79	0	0
64 MPH	93	94	0	85	0	0
69 MPH	98	99	0	91	0	0
74 MPH	99	100	0	98	0	0
79 MPH	100	100	0	100	0	0
84 MPH	100	100	0	100	0	0
89 MPH	100	100	0	100	0	0
DIRECTION OF TRAVEL	161	138	0	54	0	0
AVERAGE SPEED (MPH)	58.20	58.03	0	56.93	0	0
DIRECTION OF TRAVEL	176	113	0	60	0	0
AVERAGE SPEED (MPH)	57.77	57.19	0	55.09	0	0





# TABLE\_A27\_SPEED DATA Every 2nd Vehicle

STATION\_UI-07 HIGHWAY\_I-70 LOCATION\_0.7 miles east of West leg of I-465

NO. OF LANES\_6 TYPE CF SURFACE\_Cement WEATHER\_Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE\_3-25-80

TIME\_11:20 AM - 12:00 PM - EB

1:30 - 2:20 PM WB

PASSENGER CARS										TRUCKS									
INDIANA										<5000 LBS.									
PRES-										PRES-									
ALL										ALL									
PRES-										PRES-									
LAST										LAST									
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TABLE_A28_SPEED DATA	Every 2nd Vehicle
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STATION\_RIAL-----HIGHWAY\_Rural\_Interstate\_LOCATION\_See\_Individual\_Station.

NO. OF LANES	TYPE OF SURFACE	WEATHER
1	ASPHALT	DRY
2	CONCRETE	WET
3	GRAVEL	DRY
4	GRAVEL	WET
5	GRAVEL	DRY
6	GRAVEL	WET
7	GRAVEL	DRY
8	GRAVEL	WET
9	GRAVEL	DRY
10	GRAVEL	WET
11	GRAVEL	DRY
12	GRAVEL	WET
13	GRAVEL	DRY
14	GRAVEL	WET
15	GRAVEL	DRY
16	GRAVEL	WET
17	GRAVEL	DRY
18	GRAVEL	WET
19	GRAVEL	DRY
20	GRAVEL	WET
21	GRAVEL	DRY
22	GRAVEL	WET
23	GRAVEL	DRY
24	GRAVEL	WET
25	GRAVEL	DRY
26	GRAVEL	WET
27	GRAVEL	DRY
28	GRAVEL	WET
29	GRAVEL	DRY
30	GRAVEL	WET
31	GRAVEL	DRY
32	GRAVEL	WET
33	GRAVEL	DRY
34	GRAVEL	WET
35	GRAVEL	DRY
36	GRAVEL	WET
37	GRAVEL	DRY
38	GRAVEL	WET
39	GRAVEL	DRY
40	GRAVEL	WET
41	GRAVEL	DRY
42	GRAVEL	WET
43	GRAVEL	DRY
44	GRAVEL	WET
45	GRAVEL	DRY
46	GRAVEL	WET
47	GRAVEL	DRY
48	GRAVEL	WET
49	GRAVEL	DRY
50	GRAVEL	WET
51	GRAVEL	DRY
52	GRAVEL	WET
53	GRAVEL	DRY
54	GRAVEL	WET
55	GRAVEL	DRY
56	GRAVEL	WET
57	GRAVEL	DRY
58	GRAVEL	WET
59	GRAVEL	DRY
60	GRAVEL	WET
61	GRAVEL	DRY
62	GRAVEL	WET
63	GRAVEL	DRY
64	GRAVEL	WET
65	GRAVEL	DRY
66	GRAVEL	WET
67	GRAVEL	DRY
68	GRAVEL	WET
69	GRAVEL	DRY
70	GRAVEL	WET
71	GRAVEL	DRY
72	GRAVEL	WET
73	GRAVEL	DRY
74	GRAVEL	WET
75	GRAVEL	DRY
76	GRAVEL	WET
77	GRAVEL	DRY
78	GRAVEL	WET
79	GRAVEL	DRY
80	GRAVEL	WET
81	GRAVEL	DRY
82	GRAVEL	WET
83	GRAVEL	DRY
84	GRAVEL	WET
85	GRAVEL	DRY
86	GRAVEL	WET
87	GRAVEL	DRY
88	GRAVEL	WET
89	GRAVEL	DRY
90	GRAVEL	WET
91	GRAVEL	DRY
92	GRAVEL	WET
93	GRAVEL	DRY
94	GRAVEL	WET
95	GRAVEL	DRY
96	GRAVEL	WET
97	GRAVEL	DRY
98	GRAVEL	WET
99	GRAVEL	DRY
100	GRAVEL	WET

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )
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DATE Jan-Mar 1980  
TIME

[illegible]





# TABLE A29SPEED DATA Every 2nd Vehicle

STATION 41ALL HIGHWAY 4-lane LOCATION See Individual Station

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE Jan - Mar 1980

TIME

OBSERVATION	NUMBER OF VEHICLES	AVE. SPEED (MPH)	STANDARD DEVIATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
				INDIANA			PRES-			PRES-			<5000 LBS		
				LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
24 MPH	536	56.26	4.938	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	2	2.1	2.3	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	2	2.1	2.3	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	33.8	76.1	96.1	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	33.8	76.1	96.1	0	0	0	0	0	0	0	0	0	0	0	0
59 MPH	76.1	96.1	99.1	0	0	0	0	0	0	0	0	0	0	0	0
64 MPH	96.1	99.1	99.1	0	0	0	0	0	0	0	0	0	0	0	0
69 MPH	99.1	99.1	99.1	0	0	0	0	0	0	0	0	0	0	0	0
74 MPH	99.1	99.1	99.1	0	0	0	0	0	0	0	0	0	0	0	0
79 MPH	100.0	100.0	100.0	0	0	0	0	0	0	0	0	0	0	0	0
84 MPH	100.0	100.0	100.0	0	0	0	0	0	0	0	0	0	0	0	0
89 MPH	100.0	100.0	100.0	0	0	0	0	0	0	0	0	0	0	0	0



# TABLE A30 SPEED DATA Every 2nd Vehicle

STATION 2 LANE HIGHWAY 2-lane LOCATION See Individual Station

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE Jan - Mar 1980 DATE TIME

OBSERVATION	PASSENGER CARS			TRUCKS		
	INDIANA			<5000 LBS		
	ALL	PRES-	LAST	ALL	PRES-	LAST
NUMBER OF VEHICLES	531	505	26	325	166	150
AVERAGE SPEED (MPH)	55.90	55.92	55.50	54.51	54.61	54.45
STANDARD DEVIATION	6.009	6.051	5.210	6.592	6.423	6.782
24 MPH	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0
PERCENT	100	100	100	100	100	100
OF	100	100	100	100	100	100
VEHICLES	100	100	100	100	100	100
TRAVELING	100	100	100	100	100	100
AT OR	100	100	100	100	100	100
LESS THAN	100	100	100	100	100	100





STATION UIALE HIGHWAY Urban Interstate LOCATION See Individual Station

NO. OF LANES        TYPE OF SURFACE        WEATHER       

THIS OBSERVATION DATE Jan - Mar 1980 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.       )

DATE        TIME       

		PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
		INDIANA		PRES-		PRES-		PRES-		PRES-		PRES-		<5000 LBS		>5000 LBS	
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES		553	553	0	450	0	103	0	295	0	295	0	116	0	116	0	170
AVERAGE SPEED (MPH)		58.03	58.03	0	57.90	0	58.61	0	56.98	0	56.98	0	57.30	0	57.30	0	56.78
STANDARD DEVIATION		4.428	4.428	0	4.403	0	4.510	0	4.871	0	4.871	0	5.155	0	5.155	0	4.681
24 MPH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH		0	5	0	7	0	0	0	7	0	7	0	9	0	9	0	6
49 MPH		0	2.0	0	2.4	0	0	0	4.7	0	4.7	0	5.2	0	5.2	0	4.5
54 MPH		0	18.3	0	18.7	0	16.5	0	28.5	0	28.5	0	28.3	0	28.3	0	28.5
59 MPH		0	67.1	0	67.3	0	66.0	0	69.8	0	69.8	0	67.2	0	67.2	0	71.5
64 MPH		0	93.9	0	94.4	0	91.3	0	94.6	0	94.6	0	93.3	0	93.3	0	97.3
69 MPH		0	98.7	0	99.1	0	97.1	0	99.0	0	99.0	0	98.3	0	98.3	0	99.4
74 MPH		0	99.6	0	99.8	0	99.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH		0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH		0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

PERCENT

CF

VEHICLES

TRAVELING

AT OR

LESS THAN



TABLE A32--SPEED DATA Every 2nd Vehicle

STATION ALL HIGHWAY Indiana System LOCATION See Individual Station

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION DATE Jan 1980

DATE Jan 1980

TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

		PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES
PERCENT	OF												
VEHICLES	TRAVELING												
AT CR	LESS THAN												
24 MPH		211.6	166.2	156.81	0	454	58.54	0	1282	531	0	531	531
29 MPH		57.18	56.81	56.81	0	58.54	58.54	0	56.31	55.80	0	55.80	55.80
34 MPH		5.127	5.163	5.163	0	4.758	4.758	0	5.762	5.509	0	5.509	5.509
39 MPH		0	0	0	0	0	0	0	0	0	0	0	0
44 MPH		0	0	0	0	0	0	0	0	0	0	0	0
49 MPH		0	0	0	0	0	0	0	0	0	0	0	0
54 MPH		0	0	0	0	0	0	0	0	0	0	0	0
59 MPH		0	0	0	0	0	0	0	0	0	0	0	0
64 MPH		0	0	0	0	0	0	0	0	0	0	0	0
69 MPH		0	0	0	0	0	0	0	0	0	0	0	0
74 MPH		0	0	0	0	0	0	0	0	0	0	0	0
79 MPH		0	0	0	0	0	0	0	0	0	0	0	0
84 MPH		0	0	0	0	0	0	0	0	0	0	0	0
89 MPH		0	0	0	0	0	0	0	0	0	0	0	0





TABLE A33

## SPEED MONITORING STATION SUMMARY      FREE FLOW

HIGHWAY CATEGORY	INTERSTATE	RURAL			
STATION NUMBER	RI-6	LOCATION	I-65 7.5 Miles North of SR 160		
NUMBER OF SESSIONS	1	DATES	3-27-80	VEHICLES MEASURED	424
AVERAGE SPEED (MPH)	58.8	STANDARD DEVIATION	3.9		
MEDIAN SPEED (MPH)	58.5	85TH PERCENTILE SPEED (MPH)	62.3		
PERCENTAGE OF VEHICLES EXCEEDING:					
55 MPH	81	60 MPH	34	65 MPH	4



TABLE A34

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY ----- INTERSTATE, RURAL -----  
 STATION NUMBER RI-21 LOCATION I-69 1.6 Miles South of SR 18 -----  
 NUMBER OF SESSIONS 1 DATES 3-3-80, 4-3-80 VEHICLES MEASURED 427 -----  
 AVERAGE SPEED (MPH) 58.6 STANDARD DEVIATION 4.6 -----  
 MEDIAN SPEED (MPH) 57.8 85TH PERCENTILE SPEED (MPH) 62.8 -----  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH ----- 75 ----- 30 ----- 65 MPH ----- 7 -----





TABLE A35

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE	RURAL	
STATION NUMBER	RI-30	LOCATION	2.15 Miles North of SR 14
NUMBER OF SESSIONS	1	DATES	3-31-80
		VEHICLES MEASURED	412
AVERAGE SPEED (MPH)	59.9	STANDARD DEVIATION	4.3
MEDIAN SPEED (MPH)	59.0	85TH PERCENTILE SPEED (MPH)	63.6
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	89	60 MPH	43
		65 MPH	9



TABLE A36

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL  
 STATION NUMBER R1-36 LOCATION I-74 3.01 Miles East of US 231 1/2 HR interval  
 NUMBER OF SESSIONS 1 DATES 4-1-80 VEHICLES MEASURED 421  
 AVERAGE SPEED (MPH) 57.2 STANDARD DEVIATION 4.0  
 MEDIAN SPEED (MPH) 57.1 85TH PERCENTILE SPEED (MPH) 61.4  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH 75 60 MPH 23 65 MPH 4





TABLE A37

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 41-17 LOCATION US 52 Just East of CO RD 475 West, near Klondike

NUMBER OF SESSIONS 1 DATES 2-25-80, 4-7-80 VEHICLES MEASURED 431

AVERAGE SPEED (MPH) 55.7 STANDARD DEVIATION 5.5

MEDIAN SPEED (MPH) 55.1 85TH PERCENTILE SPEED (MPH) 59.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH	<u>51</u>	60 MPH	<u>14</u>	65 MPH	<u>3</u>
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TABLE A38

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED, RURAL-----  
 STATION NUMBER 41-32 LOCATION US 30 2.9 Miles West of Watauga City Limit Sign  
 NUMBER OF SESSIONS 1 DATES 4-11-80 -----VEHICLES MEASURED 427--  
 AVERAGE SPEED (MPH) 56.3 STANDARD DEVIATION 4.1--  
 MEDIAN SPEED (MPH) 55.8 85TH PERCENTILE SPEED (MPH) 59.6--  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH -----58.2-----60 MPH -----65 MPH -----2-----





TABLE A39

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----  
 STATION NUMBER 41-5 LOCATION SR 63 0.6 Miles South of SR 163-----  
 NUMBER OF SESSIONS 1 DATES 4-4-80-----VEHICLES MEASURED 426-----  
 AVERAGE SPEED (MPH) 56.6 STANDARD DEVIATION 5.2-----  
 MEDIAN SPEED (MPH) 56.4 85TH PERCENTILE SPEED (MPH) 61.0-----  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH -----62.2-----60 MPH -----20.3-----65 MPH -----3.2-----



TABLE A40

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----  
 STATION NUMBER 41-30 LOCATION US 30 2.1 Miles East of US 31-----  
 NUMBER OF SESSIONS 1 DATES 3-19-80 VEHICLES MEASURED 423--  
 AVERAGE SPEED (MPH) 56.8 STANDARD DEVIATION 4.3--  
 MEDIAN SPEED (MPH) 56.5 85TH PERCENTILE SPEED (MPH) 60.4--  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH -----66-----19-----65 MPH -----1-----





TABLE A41

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY --- TWO-LANE, RURAL ---  
 STATION NUMBER 21-18 LOCATION US 35 2.5 Miles East of I-69 ---  
 NUMBER OF SESSIONS 1 DATES 4-3-80 --- VEHICLES MEASURED 432 ---  
 AVERAGE SPEED (MPH) 54.7 --- STANDARD DEVIATION 5.2 ---  
 MEDIAN SPEED (MPH) 53.9 --- 85TH PERCENTILE SPEED (MPH) 59.3 ---  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH --- 44 --- 60 MPH --- 12 --- 65 MPH --- 1 ---



TABLE A42

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL  
 STATION NUMBER 21-54 LOCATION US 231 1.1 Miles South of SR 234  
 NUMBER OF SESSIONS 1 DATES 3-6-80 VEHICLES MEASURED 421  
 AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION 5.9  
 MEDIAN SPEED (MPH) 55.9 85TH PERCENTILE SPEED (MPH) 60.8  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH 58. 60 MPH 19. 65 MPH 4.





TABLE A43

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE RURAL  
 STATION NUMBER 2L-37 LOCATION US 231 0.6 Miles North of SR 16  
 NUMBER OF SESSIONS 1 DATES 3-20-80 VEHICLES MEASURED 435  
 AVERAGE SPEED (MPH) 54.9 STANDARD DEVIATION 5.9  
 MEDIAN SPEED (MPH) 54.4 85TH PERCENTILE SPEED (MPH) 60.3  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH 44 60 MPH 17 65 MPH 3



TABLE A44

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	---TWO-LANE---RURAL---
STATION NUMBER	21-51 LOCATION US 231 5.55 Miles North of SR 56
NUMBER OF SESSIONS	1 DATES 3-26-80-----VEHICLES MEASURED 432
AVERAGE SPEED (MPH)	57.1-----STANDARD DEVIATION 5.1
MEDIAN SPEED (MPH)	56.3-----85TH PERCENTILE SPEED (MPH) 61.1
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	-----64-----60 MPH -----20-----65 MPH -----6-----





TABLE A45

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE	URBAN			
STATION NUMBER	UI-6	LOCATION	L-65 Just East of White River		
NUMBER OF SESSIONS	1	DATES	4-10-80	VEHICLES MEASURED	428
AVERAGE SPEED (MPH)	58.1	STANDARD DEVIATION	4.7		
MEDIAN SPEED (MPH)	57.4	85TH PERCENTILE SPEED (MPH)	61.6		
PERCENTAGE OF VEHICLES EXCEEDING:					
55 MPH	74	60 MPH	28	65 MPH	6



TABLE A46

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY ----- INTERSTATE, URBAN -----  
 STATION NUMBER U: -07 LOCATION I-70 0.7 Miles East of West Leg of I-465  
 NUMBER OF SESSIONS 1 DATES 3-25-80 ----- VEHICLES MEASURED 424 --  
 AVERAGE SPEED (MPH) 57.2 -- STANDARD DEVIATION 4.6 --  
 MEDIAN SPEED (MPH) 57.2 -- 85TH PERCENTILE SPEED (MPH) 61.7 --  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH ----- 72.2 ----- 60 MPH ----- 27.2 ----- 65 MPH ----- 4.2 -----





TABLE A47

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY ---- INTERSTATE, RURAL ----  
 STATION NUMBER R1-21 LOCATION I-69 - 1.6 Miles South of SR 18 ----  
 NUMBER OF SESSIONS 1 DATES 3-3-80 ---- VEHICLES MEASURED 426 ----  
 AVERAGE SPEED (MPH) 58.5 STANDARD DEVIATION 4.9 ----  
 MEDIAN SPEED (MPH) 57.8 85TH PERCENTILE SPEED (MPH) 62.6 ----  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH ---- 76.2 ---- 60 MPH ---- 31.2 ---- 65 MPH ---- 8.2 ----



TABLE A48

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY ----- INTERSTATE, RURAL -----  
 STATION NUMBER R1-36 LOCATION I-74 - 3.01 Miles East of US 231 1/2 HR Intervals  
 NUMBER OF SESSIONS 1 DATES 4-1-80 ----- VEHICLES MEASURED 422 --  
 AVERAGE SPEED (MPH) 58.4 -- STANDARD DEVIATION 4.3 --  
 MEDIAN SPEED (MPH) 57.8 -- 85TH PERCENTILE SPEED (MPH) 62.0 --  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH ----- 75.2 ----- 60 MPH ----- 28.5 ----- 65 MPH ----- 5.2 -----





TABLE A49

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----  
 STATION NUMBER 41-17 LOCATION US 52 -- Just East of CO RD 475 W, Near Klondike  
 NUMBER OF SESSIONS 1 DATES 4-7-80 ----- VEHICLES MEASURED 422 --  
 AVERAGE SPEED (MPH) 55.2 -- STANDARD DEVIATION 5.5 --  
 MEDIAN SPEED (MPH) 55.4 -- 85TH PERCENTILE SPEED (MPH) 59.9 --  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH ----- 54.2 ----- 60 MPH ----- 14.2 ----- 65 MPH ----- 1.2 -----



TABLE A50

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----  
 STATION NUMBER 41-05 LOCATION SR 63 --.6 Miles South of SB 163-----  
 NUMBER OF SESSIONS 1 DATES 4-4-80-----VEHICLES MEASURED 424--  
 AVERAGE SPEED (MPH) 56.6-- STANDARD DEVIATION 5.0--  
 MEDIAN SPEED (MPH) 56.2-- 85TH PERCENTILE SPEED (MPH) 60.9--  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH -----61.2-----60 MPH -----18.2-----65 MPH -----4.2-----





TABLE A51

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY	TWO-LANE RURAL		
STATION NUMBER	21-54	LOCATION	US 231 - 1.1 Miles South of SR 234
NUMBER OF SESSIONS	1	DATES	3-6-80
		VEHICLES MEASURED	424
AVERAGE SPEED (MPH)	55.3	STANDARD DEVIATION	6.5
MEDIAN SPEED (MPH)	54.6	85TH PERCENTILE SPEED (MPH)	60.7
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	48	60 MPH	18
		65 MPH	6



TABLE A52

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY	TWO-LANE, RURAL	
STATION NUMBER	21-37	LOCATION US 231 - .6 Miles North of SR 16
NUMBER OF SESSIONS	1	DATES 3-20-80 VEHICLES MEASURED 432
AVERAGE SPEED (MPH)	55.4	STANDARD DEVIATION 6.1
MEDIAN SPEED (MPH)	55.3	85TH PERCENTILE SPEED (MPH) 60.4
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	53	60 MPH 16
		65 MPH 4





TABLE A53

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY	INTERSTATE, URBAN		
STATION NUMBER	UI-06	LOCATION	I-65 Just East of White River
NUMBER OF SESSIONS	1	DATES	4-10-80
			VEHICLES MEASURED
AVERAGE SPEED (MPH)	57.4	STANDARD DEVIATION	4.6
MEDIAN SPEED (MPH)	56.7	85TH PERCENTILE SPEED (MPH)	61.3
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	69	60 MPH	22
		65 MPH	5



TABLE A54.

## SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY ----- INTERSTATE, URBAN -----  
 STATION NUMBER UI-C7 LOCAT PCN I-70 - 0.7 Miles East of West Leg of I-465  
 NUMBER OF SESSIONS 1 DATES 3-25-80 ----- VEHICLES MEASURED 421 --  
 AVERAGE SPEED (MPH) 57.9 STANDARD DEVIATION 4.6 --  
 MEDIAN SPEED (MPH) 57.5 85TH PERCENTILE SPEED (MPH) 61.8 --  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH ----- 71.5 ----- 60 MPH ----- 28.5 ----- 65 MPH ----- 5.5 -----







COVER DESIGN BY ALDO GIORGINI